

=> s (l1 or l2 or -tetracyclines) and granul? and fermentation solids and
(antibacterial or infection) and oil# and antibiotic

4 FILES SEARCHED...

11 FILES SEARCHED...

L3 2 (L1 OR L2 OR -TETRACYCLINES) AND GRANUL? AND FERMENTATION SOLIDS
AND (ANTIBACTERIAL OR INFECTION) AND OIL# AND ANTIBIOTIC

=> d 1,2

L3 ANSWER 1 OF 2 USPATFULL on STN

AN 2003:129821 USPATFULL

TI Apparatus for the preparation of chlortetracycline-containing animal
feed compositions

IN Winstrom, Willis L., Omaha, NE, United States

PA Pennfield Oil Company, Omaha, NE, United States (U.S. corporation)

PI US 6562615 B1 20030513

AI US 2000-587410 20000605 (9)

RLI Continuation-in-part of Ser. No. US 1999-350474, filed on 9 Jul 1999

PRAI US 1998-103074P 19981005 (60)

US 1998-105229P 19981021 (60)

US 1999-115761P 19990113 (60)

DT Utility

FS GRANTED

LN.CNT 1473

INCL INCLM: 435/289.100

INCLS: 435/297.200; 435/813.000; 552/206.000; 424/442.000

NCL NCLM: 435/289.100

NCLS: 424/442.000; 435/297.200; 435/813.000; 552/206.000

IC [7]

ICM: C12M001-12

ICS: A23K001-17

EXF 260/559; 426/51; 426/54; 045/92; 435/64; 435/283.1; 435/289.1;

435/297.1; 435/297.2; 435/308.1; 435/813; 552/206; 424/442

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 2 USPATFULL on STN

AN 2003:13085 USPATFULL

TI Chlortetracycline-containing animal feed compositions and methods for
their use

IN Winstrom, Willis L., Omaha, NE, United States

PA Pennfield Oil Company, Omaha, NE, United States (U.S. corporation)

PI US 6506402 B1 20030114

AI US 2000-587411 20000605 (9)

RLI Continuation-in-part of Ser. No. US 1999-350474, filed on 9 Jul 1999

PRAI US 1998-103074P 19981005 (60)

US 1998-105229P 19981021 (60)

US 1999-115761P 19990113 (60)

DT Utility

FS GRANTED

LN.CNT 1733

INCL INCLM: 424/442.000

INCLS: 426/633.000; 426/053.000; 426/054.000; 435/048.000

NCL NCLM: 424/442.000

NCLS: 426/053.000; 426/054.000; 426/633.000; 435/048.000

IC [7]

ICM: A61F013-00

ICS: A23L001-36; A23B007-10; C12P033-20

EXF 426/633; 426/53; 426/54; 424/80; 435/48

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

L4 ANSWER 3 OF 13 USPATFULL on STN
 AN 1999:124781 USPATFULL
 TI Polycyclic ether **antibiotic** having anthelmintic, anticoccidial and growth promotant activity
 IN Cullen, Walter P., East Lyme, CT, United States
 Dirlam, John P., Gales Ferry, CT, United States
 Maeda, Hiroshi, Chita-Gun, Japan
 Tone, Junsuke, Chita, Japan
 PA Pfizer Inc., New York, NY, United States (U.S. corporation)
 PI US 5965445 19991012
 AI US 1992-849552 19920311 (7)
 RLI Continuation of Ser. No. US 1990-527627, filed on 23 May 1990, now patented, Pat. No. US 5155097
 DT Utility
 FS Granted
 LN.CNT 576
 INCL INCLM: 435/886.000
 INCLS: 435/074.000; 435/119.000; 514/025.000; 514/027.000; 536/016.800; 536/018.100
 NCL NCLM: 435/886.000
 NCLS: 435/074.000; 435/119.000; 514/025.000; 514/027.000; 536/016.800; 536/018.100
 IC [6]
 ICM: C12N001-00
 EXF 536/16.8; 536/18.1; 514/25; 514/27; 435/74; 435/119; 435/886
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 13 USPATFULL on STN
 AN 95:45523 USPATFULL
 TI Acidic polycyclic ether **antibiotic**
 IN Cullen, Walter P., East Lyme, CT, United States
 Dirlam, John P., Gales Ferry, CT, United States
 Maeda, Hiroshi, Aichi, Japan
 Tone, Junsuke, Chita, Japan
 PA Pfizer Inc, New York, NY, United States (U.S. corporation)
 PI US 5418152 19950523
 AI US 1993-30086 19930312 (8)
 WO 1991-US6084 19910830
 19930312 PCT 371 date
 19930312 PCT 102(e) date
 RLI Continuation of Ser. No. US 1990-592429, filed on 4 Oct 1990, now abandoned
 DT Utility
 FS Granted
 LN.CNT 590
 INCL INCLM: 435/118.000
 INCLS: 435/123.000; 435/252.100; 514/451.000; 514/453.000; 514/460.000; 514/462.000
 NCL NCLM: 435/118.000
 NCLS: 435/123.000; 435/252.100; 514/451.000; 514/453.000; 514/460.000; 514/462.000
 IC [6]
 ICM: C12P017-16
 EXF 435/125; 435/252.1; 435/123; 435/118; 549/343; 514/460
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 13 USPATFULL on STN
 AN 95:29541 USPATFULL
 TI Microorganism for producing polycyclic ether **antibiotics**
 IN Dirlam, John P., Gales Ferry, CT, United States
 Cullen, Walter P., East Lyme, CT, United States
 Maeda, Hiroshi, Chita, Japan
 Tone, Junsuke, Chita, Japan

PA Pfizer Inc., New York, NY, United States (U.S. corporation)
PI US 5403738 19950404
AI US 1993-169566 19931217 (8)
RLI Division of Ser. No. US 1992-655440, filed on 27 Mar 1992, now patented,
Pat. No. US 5298524
DT Utility
FS Granted
LN.CNT 628
INCL INCLM: 435/252.100
INCLS: 435/825.000; 435/118.000; 435/119.000
NCL NCLM: 435/252.100
NCLS: 435/118.000; 435/119.000; 435/825.000
IC [6]
ICM: C12N001-20
EXF 435/252.1; 435/119; 435/822; 435/118; 435/117; 435/825; 435/170
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 13 USPATFULL on STN
AN 93:29187 USPATFULL
TI **Antibiotic** cyclopeptide fermentation product
IN Schwartz, Robert E., Westfield, NJ, United States
Liesch, Jerrold M., Princeton Junction, NJ, United States
White, Raymond F., Englishtown, NJ, United States
Hensens, Otto D., Red Bank, NJ, United States
Joshua, Henry, Staten Island, NY, United States
Schmatz, Dennis M., Cranford, NJ, United States
PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)
PI US 5202309 19930413
AI US 1991-749633 19910819 (7)
RLI Continuation of Ser. No. US 1990-492025, filed on 12 Mar 1990, now
abandoned which is a continuation-in-part of Ser. No. US 1989-374416,
filed on 30 Jun 1989, now abandoned
DT Utility
FS Granted
LN.CNT 995
INCL INCLM: 514/011.000
INCLS: 530/317.000; 530/323.000; 530/332.000
NCL NCLM: 514/011.000
NCLS: 530/317.000; 530/323.000; 530/332.000
IC [5]
ICM: A61K037-02
ICS: C07K007-54
EXF 530/317; 530/323; 530/332; 514/9; 514/11
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 13 USPATFULL on STN
AN 93:20473 USPATFULL
TI **Antibiotic** agent
IN Schwartz, Robert E., Westfield, NJ, United States
White, Raymond F., Englishtown, NJ, United States
PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)
PI US 5194377 19930316
AI US 1991-742968 19910809 (7)
RLI Division of Ser. No. US 1990-492025, filed on 12 Mar 1990 which is a
continuation-in-part of Ser. No. US 1989-374416, filed on 30 Jun 1989,
now abandoned
DT Utility
FS Granted
LN.CNT 951
INCL INCLM: 435/071.100
INCLS: 435/713.000; 435/119.000; 435/171.000; 435/252.100; 435/253.600;
435/254.000; 435/911.000; 530/317.000
NCL NCLM: 435/071.100
NCLS: 435/071.300; 435/119.000; 435/171.000; 435/252.100; 435/253.600;

435/254.100; 435/911.000; 530/317.000

IC [5]
ICM: C12P021-04
ICS: C12N001-00; C12N001-14; C12R001-645
EXF 435/71.1; 435/71.3; 435/119; 435/252.1; 435/171; 435/253.6; 435/911;
435/254; 530/317
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 13 USPATFULL on STN
AN 92:84855 USPATFULL
TI Polycyclic ether **antibiotic** having anthelmintic, anticoccidial
and growth promotant activity
IN Cullen, Walter P., East Lyme, CT, United States
Dirlam, John P., Gales Ferry, CT, United States
Maeda, Hiroshi, Chita, Japan
Tone, Junsuke, Chita, Japan
PA Pfizer Inc, New York, NY, United States (U.S. corporation)
PI US 5155097 19921013
AI US 1990-527627 19900523 (7)
DT Utility
FS Granted
LN.CNT 566
INCL INCLM: 514/027.000
INCLS: 536/016.800; 536/018.100; 514/025.000; 435/074.000; 435/119.000;
435/886.000
NCL NCLM: 514/027.000
NCLS: 435/074.000; 435/119.000; 435/886.000; 514/025.000; 536/016.800;
536/018.100

IC [5]
ICM: A61K031-71
ICS: C07H017-04
EXF 536/16.8; 536/18.1; 514/27; 514/25; 435/74; 435/886; 435/119
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 9 OF 13 USPATFULL on STN
AN 91:92554 USPATFULL
TI Acid polycyclic ether **antibiotic**
IN Cullen, Walter P., Groton, CT, United States
Hauske, James R., Groton, CT, United States
Kostek, Gloria J., Groton, CT, United States
Maeda, Hiroshi, Groton, CT, United States
Tone, Junsuke, Groton, CT, United States
PA Pfizer Inc., New York, NY, United States (U.S. corporation)
PI US 5064855 19911112
AI US 1991-649120 19910128 (7)
RLI Continuation of Ser. No. US 1990-467589, filed on 19 Jan 1990, now
abandoned which is a division of Ser. No. US 1989-315953, filed on 27
Feb 1989, now patented, Pat. No. US 4920050

DT Utility
FS Granted
LN.CNT 564
INCL INCLM: 514/460.000
INCLS: 549/343.000
NCL NCLM: 514/460.000
NCLS: 549/343.000

IC [5]
ICM: A61K031-35
ICS: C07D311-00
EXF 549/343; 514/460
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 10 OF 13 USPATFULL on STN
AN 91:44651 USPATFULL
TI **Antibiotic** agent produced by the cultivation of Zalerion

microorganism in the presence of mannitol
IN Giacobbe, Robert A., Lavallette, NJ, United States
Tkacz, Jan S., Piscataway, NJ, United States
Masurekar, Prakash S., Warren, NJ, United States
Kaplan, Louis, New City, NY, United States
Sosa, Margaret S., Elizabeth, NJ, United States
PA Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)
PI US 5021341 19910604
AI US 1990-492026 19900312 (7)
DT Utility
FS Granted
LN.CNT 972
INCL INCLM: 435/071.100
INCLS: 435/071.300; 435/119.000; 435/247.000; 435/254.000; 435/911.000
NCL NCLM: 435/071.100
NCLS: 435/071.300; 435/119.000; 435/247.000; 435/254.100; 435/256.800;
435/911.000
IC [5]
ICM: C12P021-04
ICS: C12N001-00; C12N001-14; C12N001-32
EXF 435/71.1; 435/71.3; 435/119; 435/911; 425/254; 425/247
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 11 OF 13 USPATFULL on STN
AN 90:32137 USPATFULL
TI Acidic polycyclic ether **antibiotic**
IN Cullen, Walter P., East Lyme, CT, United States
Hauske, James R., East Lyme, CT, United States
Kostek, Gloria J., Preston, CT, United States
Maeda, Hiroshi, Aichi, Japan
Tone, Junsuke, Chita, Japan
PA Pfizer Inc., New York, NY, United States (U.S. corporation)
PI US 4920050 19900424
AI US 1989-315953 19890227 (7)
DT Utility
FS Granted
LN.CNT 556
INCL INCLM: 435/119.000
INCLS: 435/118.000; 435/125.000; 435/253.500; 435/886.000; 549/334.000
NCL NCLM: 435/119.000
NCLS: 435/118.000; 435/125.000; 435/253.500; 435/886.000; 549/334.000
IC [5]
ICM: C12P017-18
ICS: C12P017-06; C12N001-20; C07D317-00
EXF 435/101; 435/886; 435/822; 435/252.1; 435/119; 435/118; 435/125;
435/253.5; 536/120
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 12 OF 13 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 405997 EUROPATFULL ED 20000827 EW 199101 FS OS STA B
TIEN **Antibiotic** agent.
TIDE Antibiotische Mittel.
TIFR Agent antibiotique.
IN Schwartz, Robert E., 765 Summit Avenue, Westfield NJ 07090, US;
White, Raymond F., 12 Becket Road, Englishtown NJ 07726, US;
Liesch, Jerrold M., 10 Sherbrooke Drive, Princeton Junction NJ 08550,
US;
Hensens, Otto D., 65 Alexander Drive, River Plaza, Red Bank, NJ 07701,
US;
Joshua, Henry, 256 Woodward Avenue, Staten Island, NY 10314, US;
Schmatz, Dennis M., 306 Elizabeth Avenue, Cranford NJ 07016, US;

Tkacz, Jan S., 620 S. Randolphville Road, Piscataway, NJ 08854, US;
Kaplan, Louis, 7 Lexington Road, New City NY 10956, US;
Sosa, Margaret S., 126 Lincoln Avenue, Elizabeth, NJ 07208, US;
Fountoulakis, Jimmy M., 2421 Longfellow Avenue, Westfield, NJ 07090, US;
Giacobbe, Robert A., 230 Westmont Avenue, Lavallette, NJ 08735, US;
Masurekar, Prakash S., 35 Christy Drive, Warren, NJ 07060, US

PA MERCK & CO. INC., 126, East Lincoln Avenue P.O. Box 2000, Rahway New
Jersey 07065-0900, US

SO Wila-EPZ-1991-H01-T1

DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R LU;
R NL; R SE

PIT EPA1 EUROPÄISCHE PATENTANMELDUNG

PI EP 405997 A1 19910102

OD 19910102

AI EP 1990-307124 19900629

PRAI US 1989-374416 19890630
US 1990-492025 19900312
US 1990-492026 19900312
US 1990-492024 19900312

IC ICM C07K007-06
ICS C12P021-04 A61K037-02

ICI C12P021-04 C12R001:645

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 405997 EUROPATFULL UP 20011005 EW 199430 FS PS STA B

TIEN **Antibiotic agent.**

TIDE Antibiotische Mittel.

TIFR Agent antibiotique.

IN Schwartz, Robert E., 765 Summit Avenue, Westfield NJ 07090, US;
White, Raymond F., 12 Becket Road, Englishtown NJ 07726, US;
Liesch, Jerrold M., 10 Sherbrooke Drive, Princeton Junction NJ 08550,
US;
Hensens, Otto D., 65 Alexander Drive, River Plaza, Red Bank, NJ 07701,
US;
Joshua, Henry, 256 Woodward Avenue, Staten Island, NY 10314, US;
Schmatz, Dennis M., 306 Elizabeth Avenue, Cranford NJ 07016, US;
Tkacz, Jan S., 620 S. Randolphville Road, Piscataway, NJ 08854, US;
Kaplan, Louis, 7 Lexington Road, New City NY 10956, US;
Sosa, Margaret S., 126 Lincoln Avenue, Elizabeth, NJ 07208, US;
Fountoulakis, Jimmy M., 2421 Longfellow Avenue, Westfield, NJ 07090, US;
Giacobbe, Robert A., 230 Westmont Avenue, Lavallette, NJ 08735, US;
Masurekar, Prakash S., 35 Christy Drive, Warren, NJ 07060, US

PA MERCK & CO. INC., 126, East Lincoln Avenue P.O. Box 2000, Rahway New
Jersey 07065-0900, US

SO Wila-EPS-1994-H30-T1

DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IT; R LI; R LU;
R NL; R SE

PIT EPB1 EUROPÄISCHE PATENTSCHRIFT

PI EP 405997 B1 19940727

OD 19910102

AI EP 1990-307124 19900629

PRAI US 1989-374416 19890630
US 1990-492025 19900312
US 1990-492026 19900312
US 1990-492024 19900312

REP EP 31662 A EP 32009 A
EP 311193 A WO 82-00587 A

REN Chemical Abstracts. vol., 110, no., 21, 22 May 1989, page 384, abstract
no., 188994u, Columbus, Ohio, US; R. E. SCHWARTZ et al.: "L-671,329, a
new antifungal agent. I. Fermentation and isolation" & J. Antibot. 1989,
vol. 42, no. 2, pages 163-167

IC ICM C07K007-06
ICS C12P021-04 A61K037-02

ICI C12P021-04 C12R001:645

L4 ANSWER 13 OF 13 IFIPAT COPYRIGHT 2004 IFI on STN
AN 03814108 IFIPAT;IFIUDB;IFICDB
TI CHLORTETRACYCLINE-CONTAINING ANIMAL FEED COMPOSITIONS AND METHODS FOR
THEIR USE

IN Winstrom Willis L

PA Pennfield Oil Co (63971)

PI US 6506402 B1 20030114

AI US 2000-587411 20000605

RLI US 1999-350474 19990709 CONTINUATION-IN-PART PENDING

PRAI US 1998-103074P 19981005 (Provisional)

US 1998-105229P 19981021 (Provisional)

US 1999-115761P 19990113 (Provisional)

FI US 6506402 20030114

DT Utility

FS CHEMICAL

GRANTED

OS CA 138:95660

MRN 010849 MFN: 0992

CLMN 104

GI 6 Drawing Sheet(s), 6 Figure(s).

FIGS. 1 and 2 are flow charts outlining processes for preparing a chlortetracycline-containing animal feed composition in accordance with two embodiments of the present invention wherein the chlortetracycline is present in the form of a complex;

FIGS. 3 and 4 are flow charts outlining processes for preparing a chlortetracycline-containing animal feed composition in accordance with two embodiments of the present invention wherein the chlortetracycline is present in the form of the free base; and

FIGS. 5 and 6 are schematic diagrams of two systems designed for carrying out procedures of the present invention.

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